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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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| 09/977,159 | 10/11/2001 | Glen Alan Jaquette | TUC920010022US1 | 3879 |

7590 11/16/2004

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EXAMINER

BACKER, FIRMIN

| ART UNIT | PAPER NUMBER |
|----------|--------------|
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3621

DATE MAILED: 11/16/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/977,159

Applicant(s)

JAQUETTE, GLEN ALAN

Examiner

Firmin Backer

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 11 October 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-43 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-43 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

This is in response to a letter for patent filed on October 11th, 2001 in which claims 1-43 are presented for examination. Claims 1-43 are pending in the letter.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-43 are rejected under 35 U.S.C. 102(e) as being anticipated by Elliot (U.S. Pub No 2004/0162137).

3. As per claims 1, Elliot teaches a method for enabling access to data in a storage medium within one of a plurality of storage cartridges capable of being mounted into a interface device, comprising: providing an association of at least one coding key to a plurality of storage cartridges; determining one coding key associated with one target storage cartridge, wherein the coding key is capable of being used to access data in the storage medium within the target storage cartridge; and encrypting the determined coding key, wherein the coding key is

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decrypted to use to decode and code data stored in the storage medium (*see paragraphs 0005, 0015-0018, 0080, 0109, 0160, 0164-0168, 0176-0178, 0183, 0184*).

4. As per claims 2, Elliot teaches a method further comprising: using the coding key to encode data to write to the storage medium; transmitting the encoded data to the interface device to write to the storage medium in one storage cartridge mounted in the interface device; receiving encoded data from the interface device read from the storage medium; and using the coding key to decrypt the received encoded data (*see paragraphs 0005, 0015-0018, 0080, 0109, 0160, 0164-0168, 0176-0178, 0183, 0184*).

5. As per claims 3, Elliot teaches a method wherein the association of the at least one coding key to the plurality of storage cartridges associates one key with the plurality of storage cartridges, wherein the one key is capable of being used to encode data written to the storage medium and decode data read from the storage medium of the plurality of storage devices (*see paragraphs 0005, 0015-0018, 0080, 0109, 0160, 0164-0168, 0176-0178, 0183, 0184*).

6. As per claims 4, Elliot teaches a method wherein the association of the at least one coding key to the plurality of storage cartridges associates a different key with each storage cartridge, wherein the key associated with one storage cartridge is used to encode data written to the storage medium and decode data read from the storage medium of the storage cartridge (*see paragraphs 0005, 0015-0018, 0080, 0109, 0160, 0164-0168, 0176-0178, 0183, 0184*).

7. As per claims 5, Elliot teaches a method wherein the coding key comprises a seed value that is used to generate an additional key that is used to directly decode and encode the data in the storage medium in the storage cartridge (*see paragraphs 0005, 0015-0018, 0080, 0109, 0160, 0164-0168, 0176-0178, 0183, 0184*).

8. As per claims 6, Elliot teaches a method further comprising: transmitting the encrypted coding key to the interface device, wherein the interface device decrypts the coding key to use to decode and code data stored in the storage medium (*see paragraphs 0005, 0015-0018, 0080, 0109, 0160, 0164-0168, 0176-0178, 0183, 0184*).

9. As per claims 7, Elliot teaches a method wherein encrypting the coding key further comprises: encrypting the coding key with a first key, wherein a second key used by the interface device is capable of decrypting the coding key encrypted with the first key (*see paragraphs 0005, 0015-0018, 0080, 0109, 0160, 0164-0168, 0176-0178, 0183, 0184*).

10. As per claims 8, Elliot teaches a method wherein encrypting the coding key further comprises: encrypting the coding key with a first key, wherein a second key is capable of decrypting the coding key encrypted with the first key; encrypting the second key with a third key, wherein a fourth key used by the interface device is capable of decrypting data encrypted with the third key; and transmitting the coding key encrypted with the first key and the second key encrypted with the third key to the interface device (*see paragraphs 0005, 0015-0018, 0080, 0109, 0160, 0164-0168, 0176-0178, 0183, 0184*).

11. As per claims 9, Elliot teaches a method wherein encrypting the coding key further comprises: encrypting the coding key with a first key, wherein a second key is capable of decrypting the coding key encrypted with the first key; transmitting the coding key encrypted with the first key to the interface device; receiving, from the interface device, the coding key encrypted with the first key; decrypting the coding key with the second key; encrypting the coding key with a third key, wherein a fourth key used by the interface device is capable of decrypting data encrypted with the third key; and transmitting the coding key encrypted with the third key to the interface device (*see paragraphs 0005, 0015-0018, 0080, 0109, 0160, 0164-0168, 0176-0178, 0183, 0184*).

12. As per claims 10, Elliot teaches a method for accessing data in a removable storage cartridge including a storage medium, comprising: receiving an encrypted coding key from a host system; decrypting the encrypted coding key; using the coding key to encode data to write to the storage medium; and using the coding key to decode data written to the storage medium (*see paragraphs 0005, 0015-0018, 0080, 0109, 0160, 0164-0168, 0176-0178, 0183, 0184*).

13. As per claims 11, Elliot teaches a method wherein encoding the data with the coding key compresses the data and wherein decoding the data written to the storage medium decompresses the data, and wherein the data can only be encoded or decoded using the coding key (*see paragraphs 0005, 0015-0018, 0080, 0109, 0160, 0164-0168, 0176-0178, 0183, 0184*).

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14. As per claims 12, Elliot teaches a method wherein the coding key is encrypted by a first key maintained at the host system, further comprising; maintaining a second key that is capable of decrypting data encrypted using the first key, wherein the second key is used to decrypt the coding key encrypted with the first key (*see paragraphs 0005, 0015-0018, 0080, 0109, 0160, 0164-0168, 0176-0178, 0183, 0184*).

15. As per claims 13, Elliot teaches a method wherein the second key is stored in an integrated circuit non-volatile memory that is only accessible to decrypting logic that uses the second key to decrypt data encrypted using the first key (*see paragraphs 0005, 0015-0018, 0080, 0109, 0160, 0164-0168, 0176-0178, 0183, 0184*).

16. As per claims 14, Elliot teaches a method further comprising: transmitting the coding key decrypted using the decrypting logic to encoder/decoder logic, wherein the encoder/decoder logic uses the coding key to encode and decode data to the storage medium (*see paragraphs 0005, 0015-0018, 0080, 0109, 0160, 0164-0168, 0176-0178, 0183, 0184*).

17. As per claims 15, Elliot teaches a method further comprising: storing the coding key encrypted with the first key within the storage cartridge; receiving an input/output (I/O) request directed to the storage cartridge; and accessing the encrypted coding key from the storage cartridge, wherein the accessed coding key is decrypted using the second key, and wherein the decrypted coding key is used to encode and decode data to execute the I/O request to the storage

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cartridge (*see paragraphs 0005, 0015-0018, 0080, 0109, 0160, 0164-0168, 0176-0178, 0183, 0184*).

18. As per claims 16, Elliot teaches a method wherein the received encrypted coding key is encrypted by a first key maintained at the host system, wherein the host system maintains a second key that is capable of decrypting data encrypted using the first key, further comprising: receiving, from the host system, the second key encrypted by the host system using a third key, wherein data encrypted using the third key is capable of being decrypted using a fourth key; accessing the fourth key; using the fourth key to decrypt the encrypted second key received from the host system; and using the decrypted second key to decrypt the received coding key encrypted using the first key (*see paragraphs 0005, 0015-0018, 0080, 0109, 0160, 0164-0168, 0176-0178, 0183, 0184*).

19. As per claims 17, Elliot teaches a method wherein the coding key is encrypted by a first key maintained at the host system, wherein the host system maintains a second key that is capable of decrypting data encrypted using the first key, further comprising: transmitting the encrypted coding key received from the host system back to the host system; and in response to transmitting the encrypted coding key back to the host system, receiving, from the host system, the coding key encrypted using a third key, wherein data encrypted using the third key is decrypted using a fourth key; and accessing the fourth key, wherein the coding key is decrypted using the fourth key (*see paragraphs 0005, 0015-0018, 0080, 0109, 0160, 0164-0168, 0176-0178, 0183, 0184*).

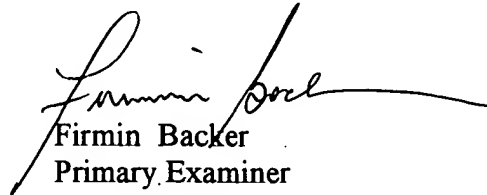
20. As per claims 18-43, they disclose the same inventive concept as claims 1-17. Therefore, they are rejected under the same rationale.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Firmin Backer whose telephone number is (703) 305-0624. The examiner can normally be reached on Mon-Thu 9:00 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Trammell can be reached on (703) 305-9768. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Firmin Backer
Primary Examiner
Art Unit 3621

November 12, 2004